CREATOR®

Professional Audio-Visual Manufacturer

User's Manual of WiFi Conference System

V1.1

CREATOR CHINA

Meaning of the symbols

■ Safety Instruction

Symbols are used in the Manual and devices, referring to the possible risk to users or others，as well as the damage to property, for helping you to safely and properly use the devices. The instruction and the implications are as follows. Please make sure your correct understanding of these instructions before using the Manual.

	To remind user to conduct according to the attached operation and maintenance instructions. If ignore these information, death or injury could possibly happen.
	To remind the user that the risky uninsulated voltage in the device could caused electric shock to human.
	CE authentication indicates the product is in line with the EU safety regulation, and for assurance of safety use.
	SGS Authentication indicates the product has reached the QC standard of the global-biggest Swiss universe surveyor.
	This product has acquired the ISO9001 International Quality Authentication (Authentication authority: Germany Rheinland TUV)
	Caution: To avoid electric shock, please don't open the case, nor put the useless parts in it. Please contact with qualified service staff.

■ General Information Instruction

	List the situation could cause unsuccessful operation or setup, and relevant information needed to notice.

Important Notices

Caution

To ensure the device in reliable use and personal safety, please abide by the following items when in installation, use and maintenance:

Notice in installation

◆Please DO NOT use the product in following places: the places with dust, oily smoke, electrical conductive dust, corrosive gas, inflammable gas; the places with high temperature, due, rain and wind exposures; the places endangered by shock and vibration. Electric shock, fire and incorrect operation could also cause damage and deterioration to the product.

◆When conducting screw drilling and wiring process, DO NOT let metal irons and wire lead drop into the controller and air vent, which could possibly cause fire, failure and accidental operation.

◆After finishing the installation, it is necessary to ensure there is no foreign matter including the packing material like contact paper on the ventilation surface, otherwise, it could cause poor heat dissipation while running, as well as fire, failure and accidental operation.

◆Avoid conducting wiring and plugging in/out cable socket with electricity, otherwise, electric shock, circuit damage could easily happen.

◆Installation and wiring should be firm and reliable. Poor contact could cause malfunction.

◆With regard to the application situations with strong interference, shielded cable should be used for the input and output of HF signal, to improve the anti-interference performance of the system.

Note in Wiring

◆ Installation and wiring shouldn't be conducted until external electric power is cut off, otherwise, electric shock or device damage could happen.

◆The product is grounded by the earth lead of the power cable. To avoid electric shock, the earth lead is necessary to be connected with the ground. Before making connection with the output end or input end of the product, please ensure it is correctly grounding.

◆Upon finish wiring, remove the sundries. Please cover up the terminal plate for avoiding electric shock.

Note for Operation and Maintenance

◆Please DO NOT touch the terminal when with electricity, otherwise, electric shock could happen.

◆Don't clean up and screw the terminal tight before power is off. Such operation could cause electric shock when with electricity.

◆Please turn off the power before connecting or disconnecting the communication signal cable, peripheral modules or control units, otherwise, device could be damaged and accidental operation could happen.

◆Please DO NOT disassemble the device, so as to avoid internal electric components damage.

◆It is necessary to read through the Manual and fully ensure the safety, before altering the program, trial running, starting and stopping operation.

◆Button battery shouldn't be replaced before the power is off. If it has to be replaced when the

device is running, it should be conducted by professional electric technician wearing insulated gloves.

Note for declaration of worthless.

◆Explosion of electrolytic capacitor on the circuit board could happen when burning it.

◆Please classify and dispose it. Don't dispose it into household garbage.

◆Please deal it as industrial waste, or in accordance with local environmental protection regulation.

Forward

User’s Manual of WiFi Conference System primarily introduces the operation of WiFi6101 Conference Host, WiFi6102B Chairman Unit, WiFi6104B Delegate Unit, key parameters and general trouble shootings.

The Manual serves as user's operation instruction, rather than for maintenance service purpose. Since the date of release, any function or relevant parameter alteration will be in supplement instruction. Please refer to the manufacturer or dealers for inquiry.

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Chapter 1 Overview

1.1 About Wireless Digital Network Conference System

Thanks to the features of easy installation and use, without space limitation, wireless conference system has become a very important development orientation of conference system technology. Based on client's need, CREATOR independently develops wireless digital conference system featuring concise and intelligent design philosophy, making everything more convenient and flexible.

CREATOR Wireless Network Conference System includes host, units and wireless access points. The system can work at corresponding positions after simple functional configuration without cable connection.

Currently, whatever small conference room and large conference hall can be a place for holding a variety of conferences and seminars in convenient and flexible way.

1.2 System Features

◆No need of wiring and drilling

◆Cost saving

Not in need of second renovation, WiFi conference system is simple for use.

◆Fashionable and decent design

◆Not limited by space, with quick installation without influencing the site

WiFi conference system is for use right after installation, only needing for placing on the conference table whatever at which sites. After use, it can be packed and moved.

◆No shield, No interference

Standard 802.11n WiFi technology, with strong penetration, not influenced by the move of staff.

◆Complete Functions

Expandable to connect to CREATOR digital simultaneous interpretation system, the WiFi conference system can realize corresponding function.

◆Built-in antenna

Adopted built-in antenna design, in concise appearance of the unit, and more importantly avoiding broken or damaged antenna influencing communication quality.

◆All-around status indication

Whatever the device is in sleep or working status, device status, system order and key confirmation can be display in the unit at a glance.

◆Reliable encryption system

WPA/WPA2 wireless encryption technology for ensuring the privacy of the conference

1.3 System Device

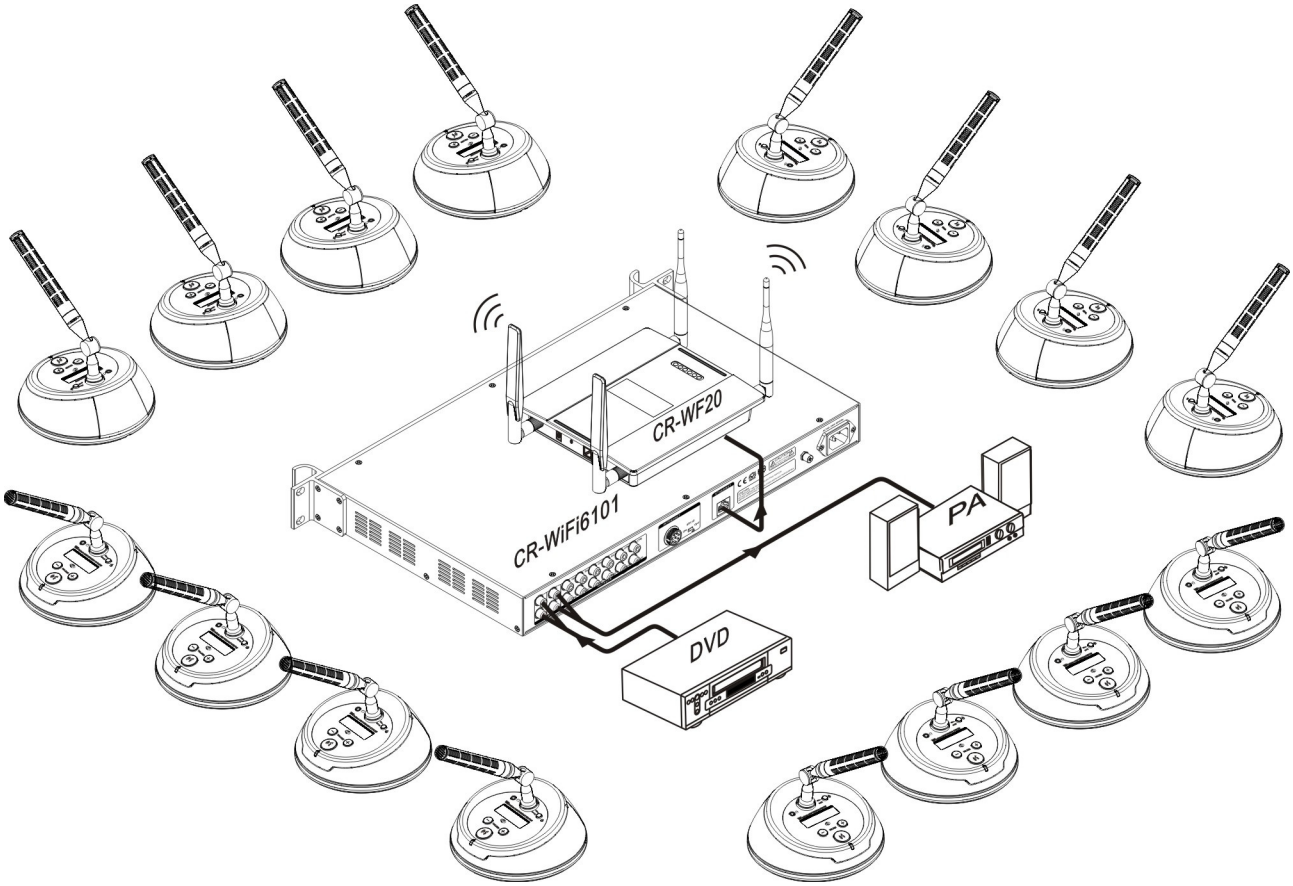
CREATOR express wireless digital network conference system primarily includes the following devices:

◆Host in CR-WiFi6101 Wireless Digital Network Conference System

◆ Chairman unit in CR-WiFi6102B Wireless Digital Network Conference System

◆Delegate unit in CR-WiFi6104B Wireless Digital Network Conference System

1.4 System Diagram



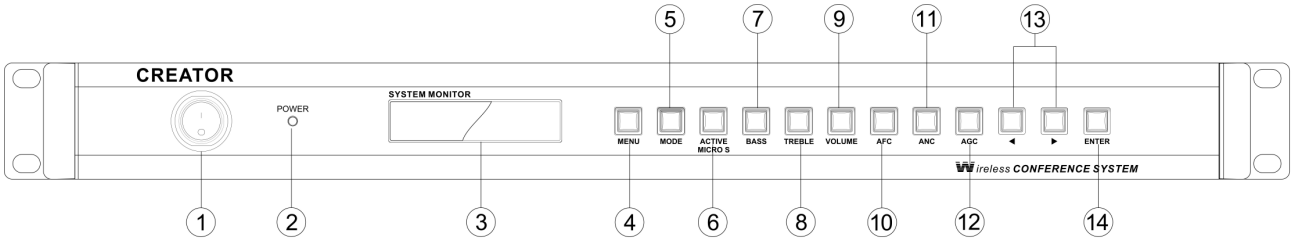
Chapter 2 Host in WiFi Conference

2.1 Overview

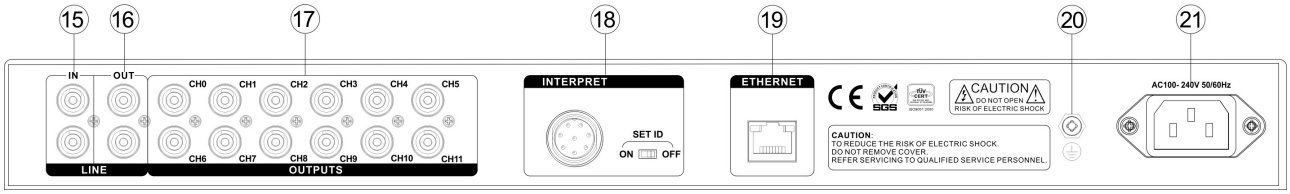
Control Host in CR-WiFi6101 Wireless Digital Conference System is an very important bridge between conference units and PC management. Using the navigation keyboards in the panel, along with LCD display, all conference functions can be for centralized controlled. With multiple conference modes selection (optional speaker number and speech modes), super powerful expanding function, DSP audio process, adopting equalizer module, environmental noise suppression technology, compatible with CREATOR simultaneous interpretation system, realizing modern high-tech conference.

2.2 CR-WiFi6101 Panel Instruction

Front Panel：



Rear Panel：



1) Power Switch

2）POWER

Power indicator is on only when with normal power supply.

3） LCD Monitor

Display MIC MODE、MIC ACTIVE'S、BASS、TREBLE 、VOLUME 、AUDIO DOWN menu configuration interface and parameters.

4） MENU

Menu keys for menu option setup

5） MODE

MIC mode setup key, with following modes:

A：FIFO（Early one exit priority mode），

After reaching the number of turning it on, the early opened speech unit will be closed by the latter one.

B：NORMAL（Quota mode），After reaching the number of turning it on, delegates in need of giving speech will be automatically queued up.

6） ACTIVE MICRO'S

Speakers number limitation, for configuration of 1/2/4/6 units for giving speech at the same time.

7） BASS

Bass increase key, for turning the bass in volume output

8） TREBLE

Treble increase key, for turning the treble in volume output.

9） VOLUME

For turning the output volume, press this key to access to output volume setup menu.

10）AFC

Anti-feedback control key

11）ANC

Noise suppress key

12）AGC

MIC auto increase control key

13）◀ 和 ▶

Left and right direction key, for locating the cursor to setup the value needed.

14）ENTER

Enter execution key, for confirmation of all operations.

15）IN

Audio input port, connecting to external audio devices like those providing background music or remote teleconference terminal output.

16）OUT

Audio output port is for connecting to amplifier to increasing the voice of speakers, or connecting to device for recording.

17）OUTPUTS

Audio output port, with 0-12 channel of audio output, connecting to infrared transmission host.

18）INTERPRET

Interpreter port is for connecting to maximum 10 interpreter units, realizing simultaneous interpretation of 12 languages. Interpreter units are taking hand-in-hand series connection.

SET ID

It is for configuring the ID of interpreter unit.

19）ETHERNET

Ethernet control port, is for connecting with wireless AP, as well as exchanger to expand Ethernet control function.

20）Grounding port

21）Input port of system power

Host power input, supporting AC100~240V 50/60HZ.

2.3 CR-WiFi6101 Functions and Features

◆ Adopting WiFi signal transmission with WPA/WPA2 digital encryption technology, ensuring the privacy of conference, avoiding tapping and malignant interference.

◆With 1-way RJ45 port, for direct connecting with a wireless AP, or 100M network exchanger for application in multiple sites.

◆ With 1-way interpretation unit port, for connecting with maximum 10 interpretation units.

◆For realizing simultaneous interpretation of 12 languages.

◆One group of LINE IN ports for connecting with external audio devices.

◆Provide one group of MIC remixed output, for live conference recording along with recording device.

◆Support manual adjustment of the bass, treble and volume

◆Built-in DSP feedback suppression function

◆Adopting full-metal case, both the wiring and case are with intensified grounding, with contact 12kv, air 15kv antistatic capacity.

◆The host can be installed in a 19-inch standard cabinet.

2.4 CR-WiFi6101 Panel Key

Operation

For the convenience of management and use, CREATOR designs navigation panel and LCD monitor facilitating your operation of system. It takes simple steps, which is easy to learn.

Instruction of basic operation

Functional key----direction key----ENTER"confirm key---direction key--- "ENTER"confirm

After setting, system will auto exit if without any operation for about 10 seconds.

LCD screen instruction

LCD monitor will be kept on for long time before turning on the host, and display current system status and operation information with white fonts and blue background.

Key indicator instruction

When key indicator is in red or flashing, red indicator flashes for once indicates successful selection of key function or parameter, and LCD monitor will display corresponding information.

2.4.1 Operation of MENU Keys

Menu keys operation includes the configuration of MIC MODE, MIC ACTIVE'S, BASS, TREBLE, VOLUME, AUDIO DOWN, with following basic steps.

1、Press "MENU" key, LCD monitor displays first option "MIC MODE".

2、Press"◀ "or" ▶"key to navigate all options in order. At the meantime, LCD monitor displays current operation status. Select the option to configure, press "ENTER" to confirm it.

3、After accessing to parameters setup screen, press"◀ "or" ▶" key to more cursor to select the setup value.

4、Press"ENTER"key to confirm the parameter selected.

Before exiting setup screen, press "MENU"key to display the option of last operation, rather than the first option.

Example:

Configure MIC mode as Normal (quota mode) with following steps:

1、In navigation panel, press "MENU" key to access to MIC mode to select screen. At the meantime, indicator will be on for once, and LCD monitor display relevant information.

2、Press"◀ "or " ▶" to move the cursor，every time when pressing the direction key, the indicator will be on for once; select "MIC MODE" to configure, press "ENTER" to confirm. Then "ENTER" key indicator will be on, and LCD monitor displays the setup of MIC mode option.

3、Press"◀ "or " ▶" to move the cursor， Select "NORMAL (quota mode), at the meantime the indicator will be on, and LCD monitor displays relevant information.

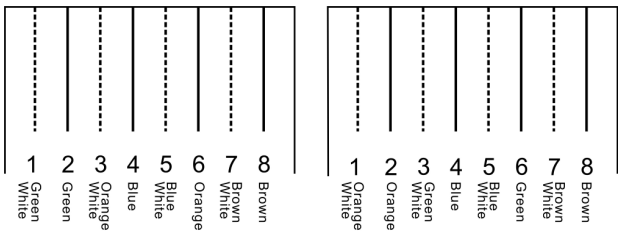
4、Finally, press"ENTER"to finish the operation.
You may directly press MIC MODE in navigation panel, access to menu setup, and follow the above step 3 and step 4 to finish the operation. It will be more convenient and express. Likewise the other keys on navigation panel (including ACTIVE MICRO'S, BASS, TREBLE, VOLUME).

2.4.2 AFC Key Operation

Press the AFC key on host panel to initiate anti-feedback function, at the same time, the corresponding indicator will be on. Press AFC key again to stop the function and the indicator will be off.
The operation of ANC (anti-noise control) function and AGC (auto-gain control) function on the panel is the same as AFC key.

2.5 ETHERNET Cable Production

The system adopts CAT-5 (category 5 cabling) as wiring, connecting the network devices via RJ-45 connectors on both ends of
CAT-5. The standard connection of UTP is not stipulated freely, as symmetric layout of cable connectors has to be ensured. In this way, the internal interference arising within cables can be offset. Generally, HSYV has 4 pairs of twisted thin lines inside, marked in different colors.
Two connections of twist pair: EIA/TIA 568B standard and EIA/TIA 568A standard.



T568A T568B

T568A line order							
1	2	3	4	5	6	7	8
G W	G	O W	B	B W	O	Br W	Br

T568B line order							
1	2	3	4	5	6	7	8
O W	O	G W	B	B W	G	Br W	Br

G:green; W: white; O:orange; B: blue; Br:brown
Direct-through line：both ends are connected in accordance with T568B line order.
Cross wire：one end is connected in accordance with T568A line order， another end is in accordance with T568B line order.

When connecting to network router, direct-through wire connection is adopted; when connecting to PC control, cross wire connection is adopted.

2.6 Connecting to Infrared Audio Distribution System

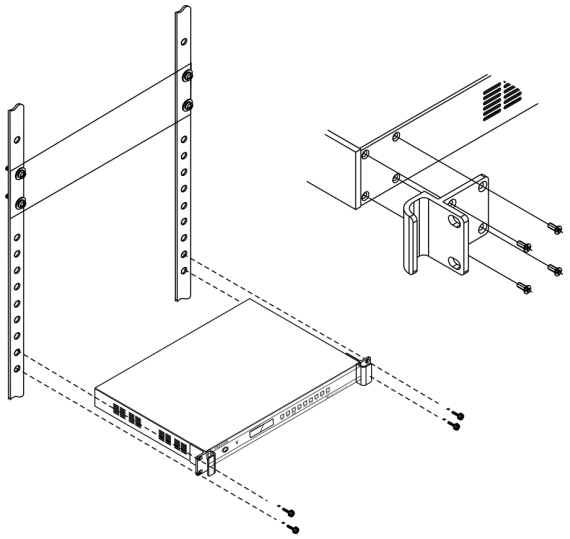
The connection between wireless conference system and CREATOR infrared audio distribution system is via 12-way audio output in CR-WiFi6101 host and 11+1-way audio input channels. Connect any way to conduct simultaneous transmission. The hosts for use with CREATOR infrared audio distribution system are:

- CR-IR3000 Infrared Transmission Host
- CR-IR2000-12 Infrared Transmission Host

See Chapter 2.9 System Connection Diagram for detailed connection approach.

2.7 Host Installation of CR-WiFi6101

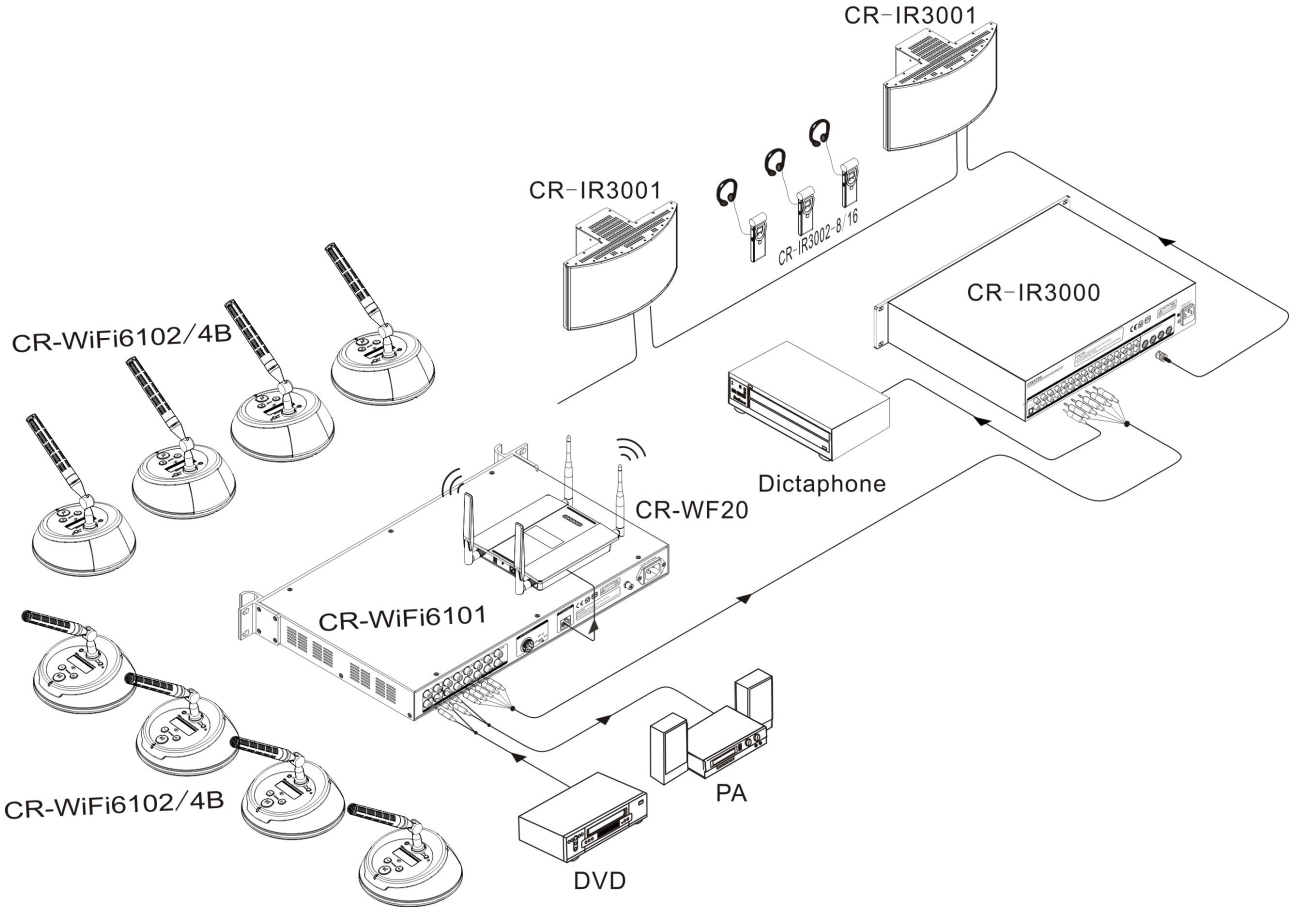
The host of WiFi conference system can be installed in a standard 19-inch cabinet. The host has standard accessories of a pair of host installation supports. See the following diagram for installation:



2.8 CR-WiFi6101 Technical Parameters

External control port	RJ45 port
Display	1602LCD monitor
Translation unit port	8Pin avionics port
S/N	›80dB
Harmonic distortion	‹0.5%
Over-carrier distortion	‹1%
Cross talk attenuation （1KHz）	›50dB
Static power consumption	3W
Max. power consumption	70W
Max power output at 8Pin avionics port	60W
Dynamic range	›80dB
Frequency response	20Hz~20KHz
Communication distance between host and AP	›100m
Dimension	483LX130WX48H（mm）
Power（America，Japan）	AC100V~AC120V 60Hz
Power（Eurasia）	AC200V~AC240V 50Hz

2.9 System Connection Diagram



Chapter 3 WiFi Conference Unit

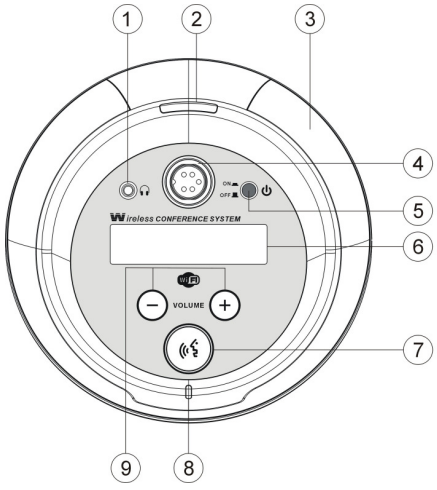
3.1 Overview

The design of CR-WiFi6102/4B wireless conference unit adopts special technique for ensuring the device is stable and durable. Delicate appearance design fits in well with any conference room.

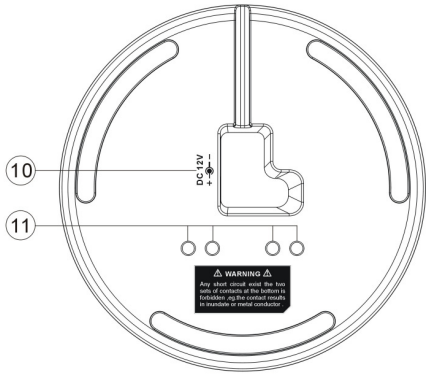
With built-in antenna, each unit has built-in high performance battery group, providing up to 9 working hours. All functions in conference unit can be realized on unit panel. Adopting encrypted WiFi transmission technology, the speech is ensured not to be captured by unauthorized parties.

3.2 CR-WiFi6102/4B Panel Instruction

Top view：



Bottom view：



1）Headset jack，insert the phone plug to hear the speech.

2）MIC power indicator will be on when MIC switch is on.

3）Plugging MIC stand base (MIC socket)，adopting 5-core high-density avionics interface, with screw turning connector making it stable in connection.

4）Unit power switching key, press it to turn on the unit, at the meantime the indicator will be on.

5）LCD monitor, displaying relevant operation with blue backlight and white fonts

6）MIC speech switching key, press it to turn on the indicator, at the meantime the indicator of MIC power will also be on.

7）Power indicator.

8）Volume adjusting and parameter setup key.

9）Power input port, self-adapting to DC 12v system power input.

10）Unit power recharging ports, with 4 ports for recharging corresponding to recharging cabinet.

3.3 CR-WiFi6102/4B Functions and Features

◆ Each conference unit is equipped with independent IP address;

◆ WiFi transmission technology, strict digital protection, ensuring the privacy of conference, avoiding tapping and malignant interference;

◆Condenser heart-shaped directional MIC, with dual-color indicator ring, it turns red when giving speech. Red light flashes if in short of power;

◆ With one-way 3.5mm stereo headset jack, capable for volume adjustment;

◆ LCD monitor with backlight, displaying MIC on/off, IP setup, SSID setup, password setup etc

◆Chairman unit is limited by maximum speaker number;

◆Chairman unit is authorized to suspend the speech in delegate unit;

◆ Chairman unit has privilege to fully control conference order;

◆With built-in rechargeable battery supporting the speech up to 9 hours continuously;

◆Adopts special 5-cord high-density avionics Port;

◆ Adopts professional conference MIC, with screw turning connector for plugging at will;

◆With feedback suppress function;

3.4 CR-WiFi6102/4B Operation Instruction

3.4.1 CR-WiFi6102/4B Setup

Wireless conference unit comprises ROUTER and IP setup. And the Router includes two components of SSID and PASSWORD. The following is the instruction in details:

3.4.1.1 ROUTER Setup

◆ **SSID setup**

Step 1：Access to interface

After correctly connecting the device, press the ON/OFF key on panel, LCD monitor will display Startup…., press and hold MIC key to access to Unit Set Menu screen, ROUTER is displayed on left in the monitor, and IP at the right. Press "—"key to access to router setup menu. Then SSID will be displayed on the left in the monitor, and PASSWORD on the right, press" — " to access to router SSID setup screen.

Step 2：Setup

After accessing to SSID setup screen, LCD monitor has default display of WIFI, and the cursor will appear under the first letter of "W", hinting to set up first letter. Use"-" and"+" keys to move the cursor, press MIC keyboard to confirm execution.

For example: To set up the 4th letter, move the cursor to letter "I", press MIC key, then letter "I" will flash, press "-" and "+" keys to set it up with value changed in order ranging 0 to 9, a to f and A to F. Set up the value and press MIC key to confirm the operation. LCD monitor will display the value configured. That's the end of operation.

Likewise, the other values can be configured in this way. And value is for up to 10 digits. After configuring SSID, press and hold MIC key, LCD monitor will display "Set SSID OK", then SSID setup is finished. Press any key or wait for 1

second to return to the setup screen of Router Set Menu.

When the value turns 0, press "-" key to delete the digit, then this digit and all the letters after it will not be displayed any more.
For example, if the value is WIFI0af, move the cursor to under 0, press MIC, 0 will flash, and press"-" key, then LCD monitor will display WIFI only, without letter 0 and the value after it.

◆ **PASSWORD setup**

In Router Set Menu screen, press "+"key to access to PASSWORD screen, the setup approach is the same as that for SSID. But in PASSWORD setup, the function of pressing "-" key to delete 0 and the value after it doesn't exist. And the value is fixed with 10 digits.

Default value is 9999999999. LCD monitor display * to represent all values. Once it's changed, it is necessary to re-input the 10-digit password.

3.4.1.2 IP Setup

In Router Set Menu screen, press MIC key to exit and access to Unit Set Menu screen, press "+"key to access to IP setup screen. The operation is the same as that for setup SSID.
the function of pressing "-" key to delete 0 and the value after it doesn't exist. And value changing order is 0 to 9.

Factory default IP is 192.168.2.110，IP address ranges between 192.168.2.31 and 192.168.2.254. Host IP address 192.168.2.16. Be sure not to have IP address conflict with router.

3.5 CR-WiFi6102/4B Technical Parameters

Connection components	
Base	To plug and unplug the MIC
Headset jack	One 3.5mm（0.14 inch）stereo headset jacks
Power	DC input power（connecting after discharging battery group）
Electrical Index	
Frequency response	30Hz～20kHz
Headset load impedance	>32 ohm<1K ohm
Wireless index	
standard	IEEE 802.11g IEEE Draft 2.0 802.11n
Wireless frequency range	2.400-2.500GHz 4.900-5.850GHz
transmitting power	15dBm
antenna gain	2dBi
Specification	
Battery output voltage	7.2V
Battery capacity	4800mAH
Working time	9 hours
Static standby time	13 hours
Charging time	3 hours
Color	Black
Dimension	150Lx150wx59H

Chapter 4 Accessories

4.1 Power Recharge Cabinet

CR-WFDS06 is the power recharge cabinet for the units in WiFi conference system, for recharging up to 6 units at the same time. Power input can be in series connection. It is also for express recharging, with maximum recharging time of 3 hours.

Power recharging diagram

Features and benefits

◆Recharging up to 6 units;
◆Universal power;
◆Power input can be in series connection;
◆Express recharging, with maximum recharging time of 3 hours;
◆Apart from recharging, the case can hold the unit;

Controller and indicator

◆On/Off;
◆Recharging status indication.

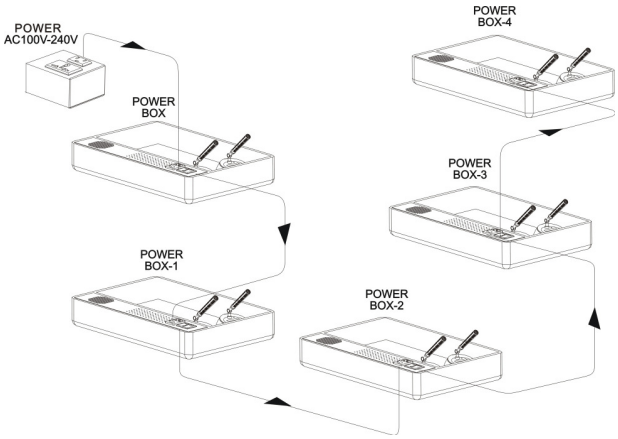
Inter-connection

◆Series port for power supply：Europe type，male socket;
◆24 recharging contacts;

Technical Parameters

Dimension	497LX397WX120H（mm）
Weight	About 5kg
Power consumption	100W
Power consumption （stand-by）	3W

Diagram of series connection among recharge cabinet



4.2 CR-P2 Headset

Function description

◆To monitor conference units；
◆To free from influence in conference system；
◆With1.5m cable；
◆Hi-fi quality.

Technical Parameters

Unit port	3.5mm mono connector
Frequency response	30Hz -16KHz
Sensitivity	90dB
S/N	〉80dB
Distortion	〈 0.1dB
Impedance	32 Ω
Dynamic range	〉85 dB

4.3 CR-W6KL215B 215mm Heart-shaped Folded MIC Stand

Function description

◆Heart-shaped directional Condenser MIC;
◆High-density 5-core Avionics interface.
◆Normal speech indicator;
◆Speech application indicator

4.4 CR-M4KL415 Knob 415mm MIC Stand(Optional)

Function description

◆Heart-shaped directional Condenser MIC;
◆High-density 5-core Avionics interface.
◆Normal speech indicator;
◆Speech application indicator

4.5 Power Recharger of CR-DOCK10B Wireless Conference Unit（Optional）

Function Description

◆Power recharge for the speech unit in wireless conference
◆With 4 anti-skidding food pads, for fastening on the table while recharging in work.
◆Power recharge indicator

4.6 Power Adaptor

Function description

◆ Power supplyand power recharge to speech unit.
◆INPUT：100V-240ac--1.5A;
◆OUTPUT：OUTPUT DC12V--3A。

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